

PATENT APPLICATION

Serial No. 09/744,424 Attorney Docket No. 1217-010064

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group Art Unit 2827

In re Application of

Toshiyuki NAKAMURA et al.

SHEET FOR FORMING A

PRINTED WIRING BOARD

Serial No. 09/744,424

Filed January 24, 2001

Examiner Kamand Cuneo

Pittsburgh, Pennsylvania October 7, 2002

LETTER TO OFFICIAL DRAFTSPERSON

Commissioner for Patents Washington, D.C. 20231

Sir:

Attached hereto is one (1) set of formal drawings. Please substitute the enclosed drawings for the drawings currently filed in the above-identified application. Copies of the drawings with all changes highlighted in yellow are submitted herewith as required by MPEP § 608.02(v). The changes were made primarily to use proper cross hatching to indicate plastic materials and holes.

Respectfully submitted,

WEBB ZIESENHEIM LOGSDON ORKIN & HANSON, P.C.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Commissioner for Patents, Washington, D.C. 20231 on October 7, 2002.

> Jennifer S. Austen (Typed Name of Person Mailing Paper)

> > 10/07/2002

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Registration No. 28,498

Attorney for Applicants

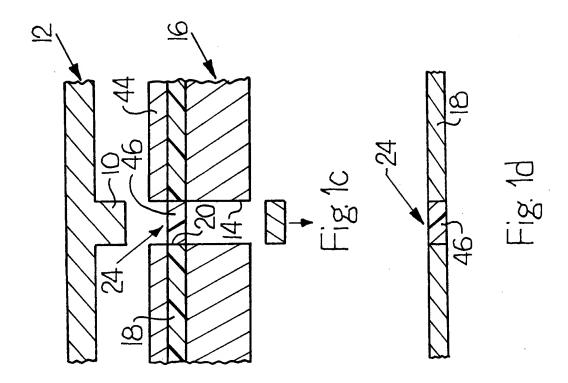
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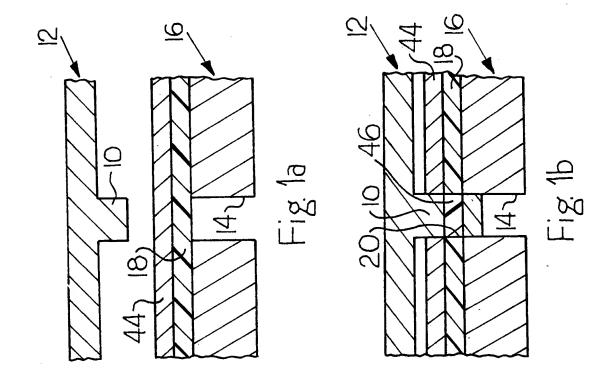
700 Koppers Building

Pittsburgh, PA 15219-1818 Telephone: (412) 471-8815 Facsimile: (412) 471-4094

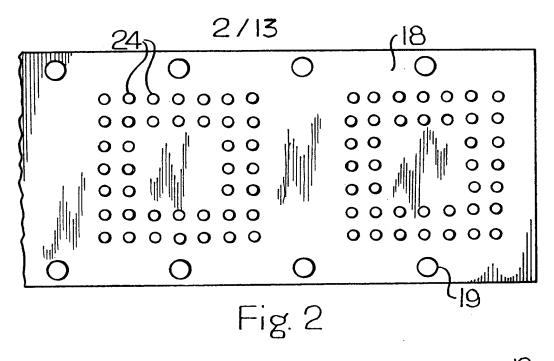
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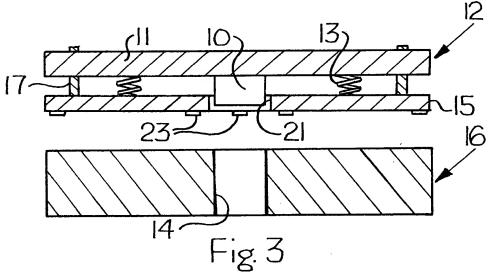


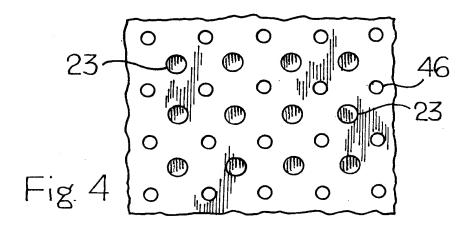


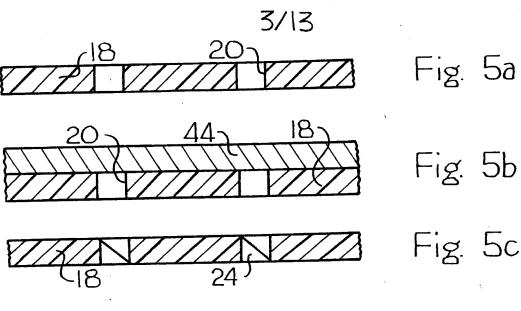


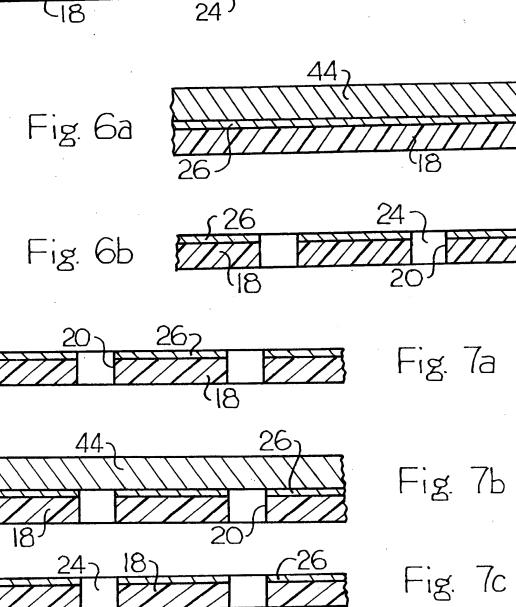
















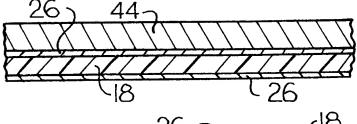


Fig. 8a

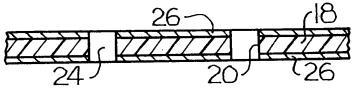


Fig. 8b

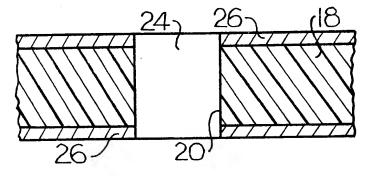


Fig. 8c

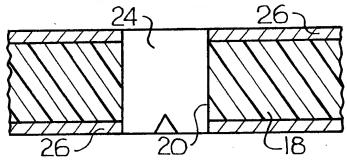


Fig. 8d

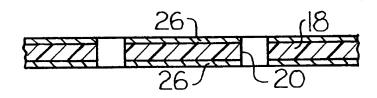


Fig. 9a

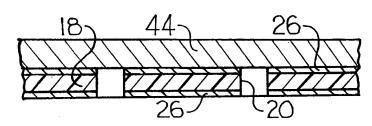
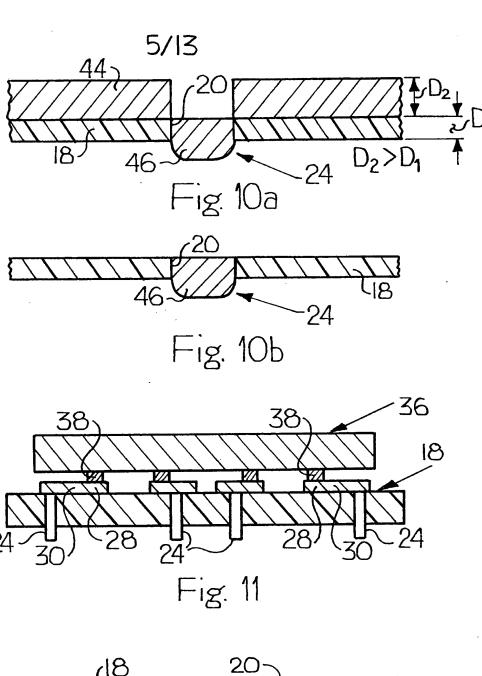
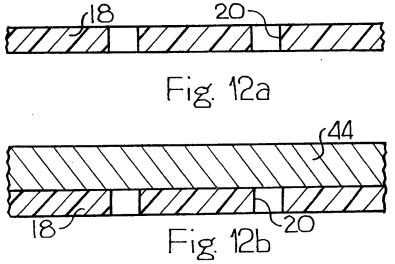


Fig. 9b

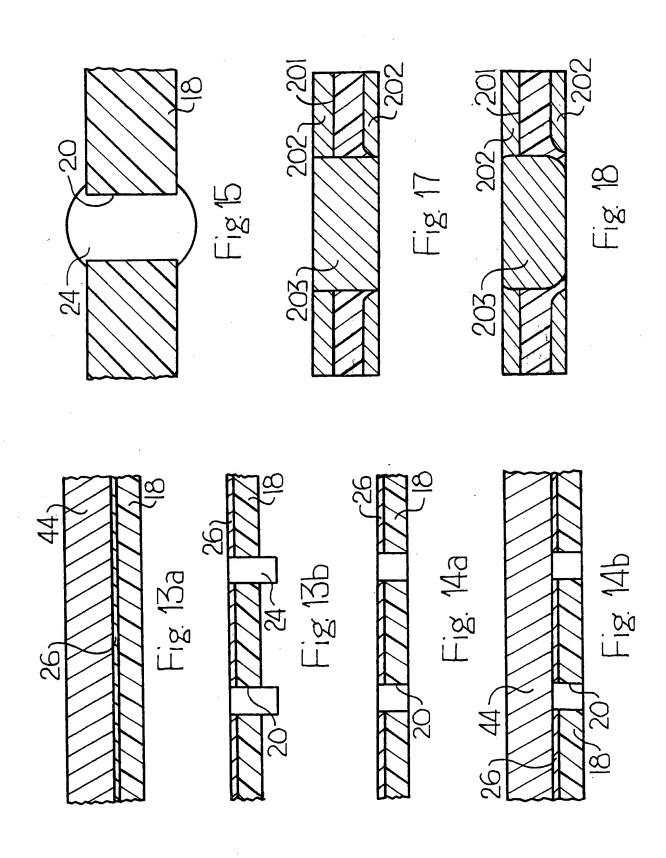








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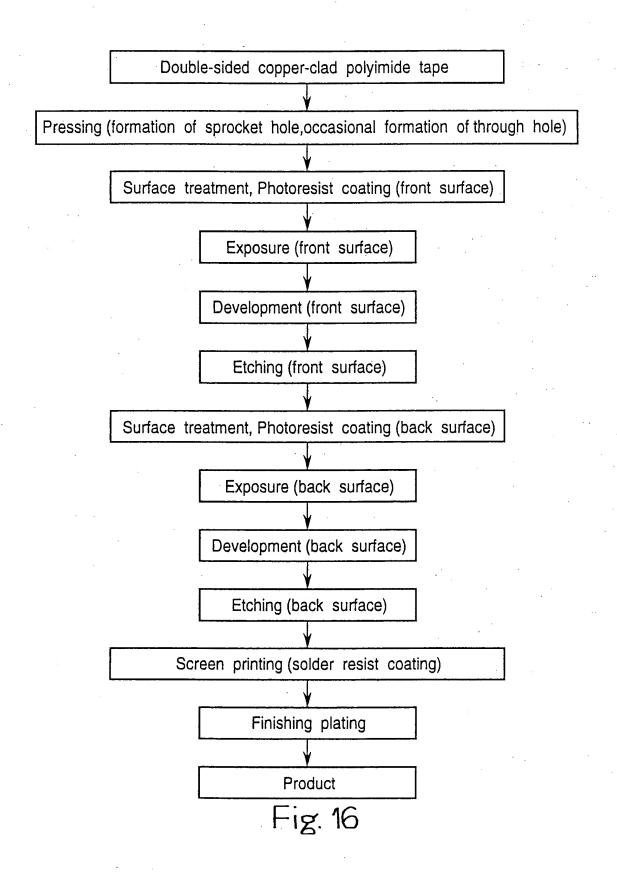


Printed Wiring Board-Forming Sheet, via Hole-Forming Method, Resident Having Filled via Hole, Printed Wiring d, and Process for Producing the Same

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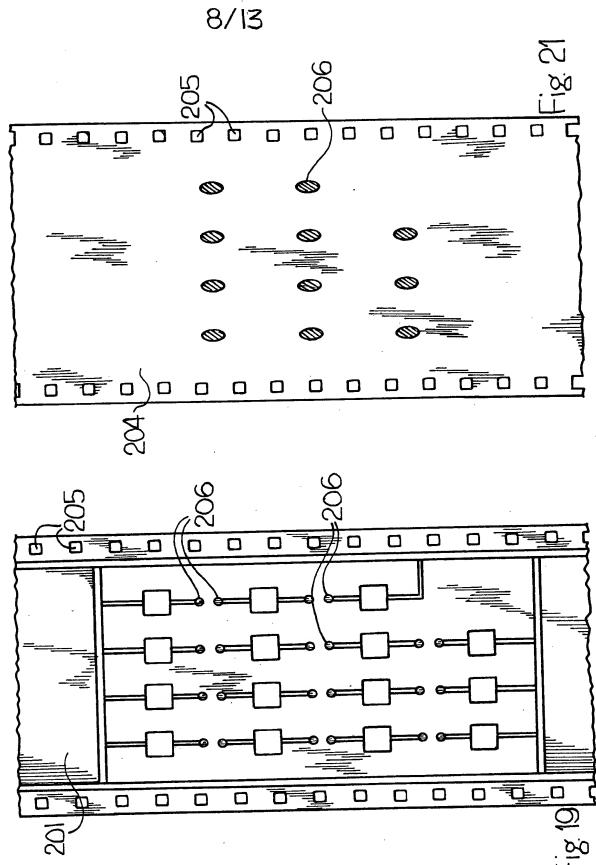
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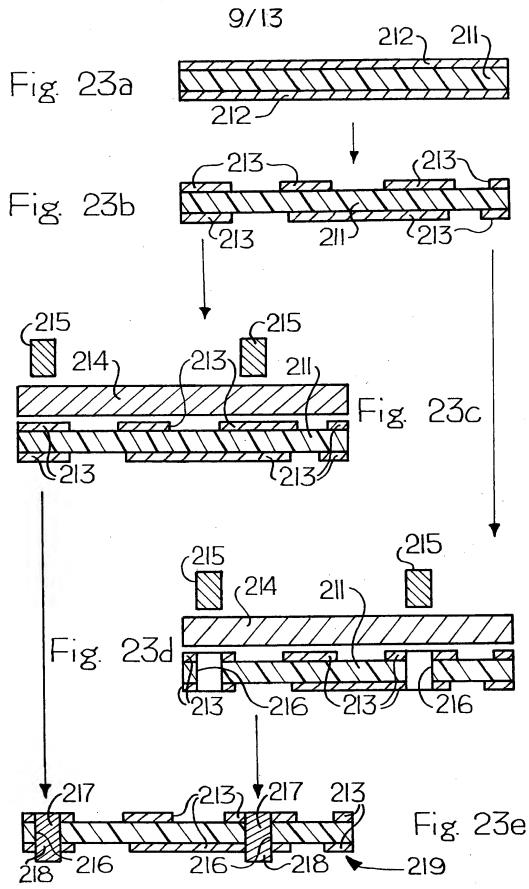




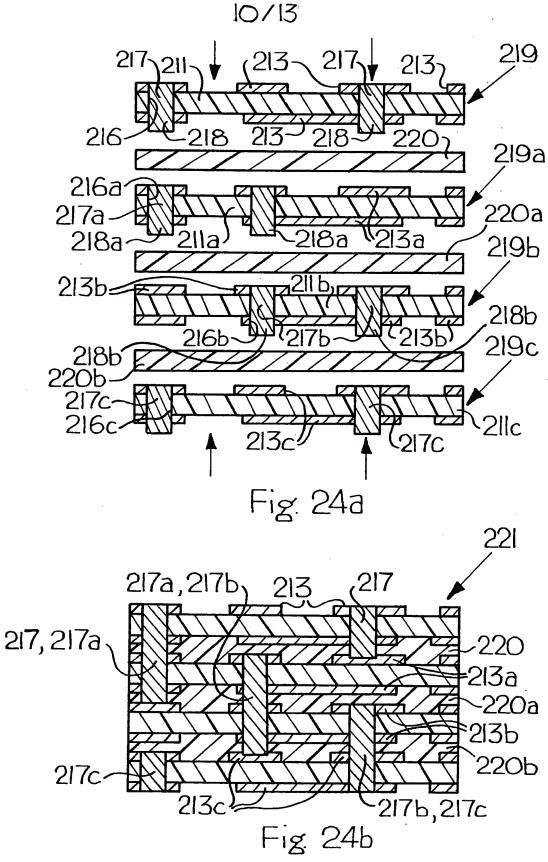




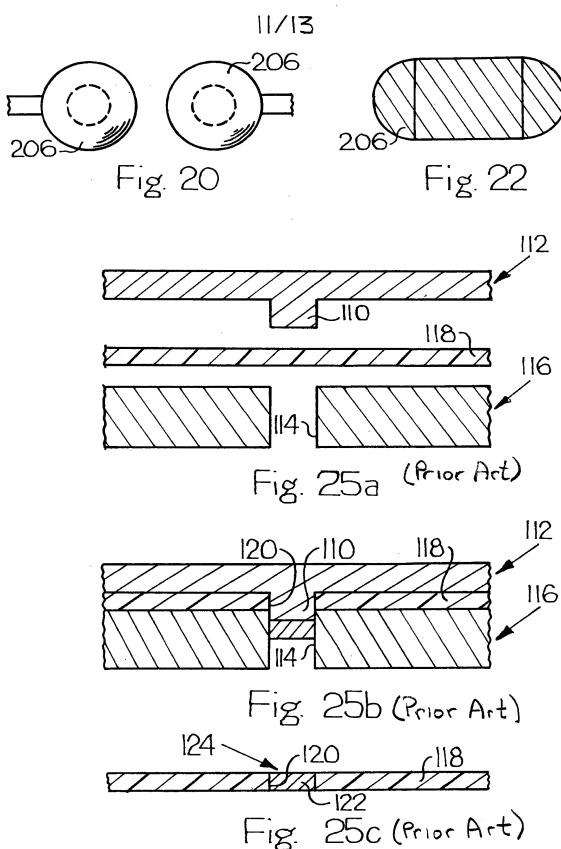






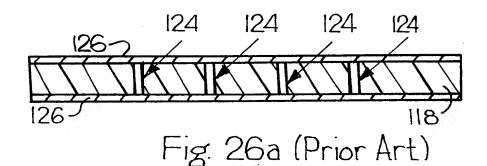


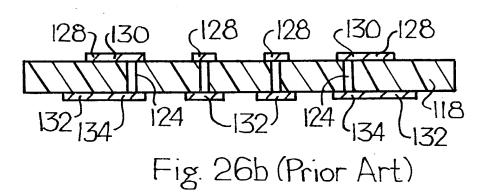


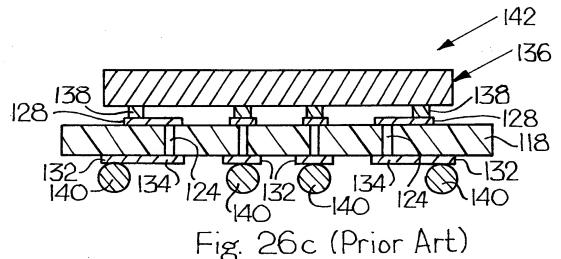




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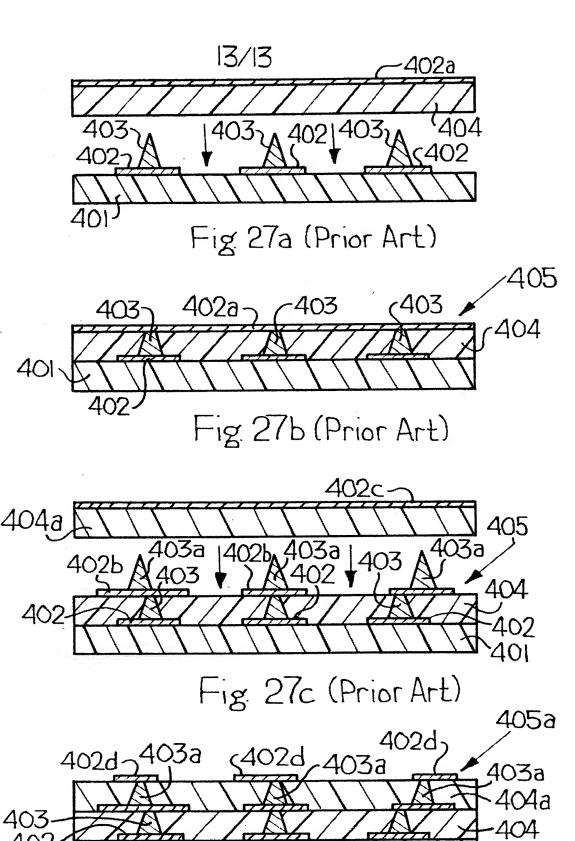


Fig. 27d (Prior Art)

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